

To: Way, Steven[way.steven@epa.gov]
From: Way, Steven
Sent: Sun 8/9/2015 10:41:54 PM
Subject: FW: Mine Water Treatment - Flocculent Information

Steven Way

Federal On-Scene Coordinator

Emergency Response Unit

US EPA - Region 8

1595 Wynkoop Street

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Office: 303-312-6723

From: Way, Steven
Sent: Sunday, August 09, 2015 4:09 PM
To: Graham, Richard
Cc: McKean, Deborah; Brobst, Bob
Subject: FW: Mine Water Treatment - Flocculent Information

Richard,

Here's the initial reference from your research that you provided in 2013 and indicated that the flocculant is acceptable to use in surface water.

Deliberative Process/Ex. 5

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This was being used at the Penn Mine project as described below. During 2013 we used a “food” grade flocculent (chitin based) that would not plug the media filters that we used – i.e., Rain for Rent equipment. Following the report from the Penn Mine operation, I requested a toxicological recommendation on using Brenfloc or more generally the polyacrylamide based flocculent.

The Brenfloc performed well for the operation at Penn Mine and we did some trial runs in 2014 at the Red and Bonita. Very small amounts used and provided high efficiency in settling with buffered mine water.

Flocculent Information

Steve,

We used two different flocculents at the Penn. The first flocculent that we used was called Brennfloc AP 2631, and is manufactured by Brentag (480-961-4189). It is a special order requiring 2 to 3 weeks lead time. We ended up needing additional flocculent, but because of the required lead time couldn't get additional Brennfloc, so we went with Hyper Drill AF 247 manufactured by Bri-Chem (303-722-1681). Both flocculents are polyacrylamides, and are considered anionic flocculents. Both varieties appeared to work pretty well. Let me know if you need any more info.

Thank you for the follow up and assistance.

Steve

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From: Graham, Richard

Sent: Tuesday, August 27, 2013 3:37 PM

To: Way, Steven

Subject: RE: Drinking Water Info on EPA WebPage

<http://water.epa.gov/drink/contaminants/basicinformation/acrylamide.cfm>